



Clinical Practice-1 (MLT-362) 1437-1438H

A- COURSE INFORMATION:

Course Code	Course Title	Credit Units			Study Level	Pre-requisites
		Total	Theory	Practical		
MLT-362	Clinical Practice (1)	2	-	2	6 th	MLT 325 MLT 233
Course Coordinator		Extension		Email Address		
Dr. Mogahid El Hassan				mmemam@taibahu.edu.sa		

B- COURSE DESCRIPTION:

Clinical practice (1) course was designed to provide the students with adequate knowledge and laboratory skills needed in clinical bacteriology, mycology, parasitology, and histology.

Learning concepts of specimen collection and transport of medically important bacteria, fungi and parasites will be the major outcome of this course. The course is of practical nature that supposed to be taken in hospitals for acquiring the practical skills of achieving tissue samples analysis and providing accurate information in an easy way to be used in the hospital.

C- COURSE OBJECTIVES:

- To recall the necessary knowledge concerned with the commonly asked questions in clinical practice for bacteriology needed to identify pathogenic bacteria.
- To discuss the identification of fungi and expanding this material to practical guidelines.
- To manipulate the examination of clinical parasites samples.
- To participate the students for presentation of infectious diseases of clinical cases to staff hospital by giving a seminar.
- To outline the tissue staining procedures and interpretation of histological slides.

E- PRACTICAL SESSIONS:

Week	Practical Session	Hours
1	Clinical bacterial guidelines and biosafety in clinical lab- Laboratory rotation	2
2	Human indigenous flora and pathogenic bacteria responsible for human disease	2
3	Specimen collection and transport guidelines- Bacterial specimen processing	2
4	Bacterial identification: Differential characteristics	2
5	Application of API system and using the conventional machine for clinical identification	2
6	Diagnosis of mycobacterium T.B and miscellaneous clinical bacterial specimen	2



7	Antibiotics and susceptibility testing by regular methods and by phoenix system	2
8	Isolation and identification of Dermatophytes	2
9	Isolation and identification of <i>oral thrush mycosis</i>	2
10	Sample collection and preparation for identification of malaria (and other blood parasites) and <i>leishmania</i>	2
11	Tissue sample preparation for diagnosis of tissue nematodes and cestodes	2
12	Stool sample preparation for diagnosis of intestinal parasites	2
13	Tissue processing	2
14	Tissue staining and interpretation	2
15	Immuno histochemistry	2

G- ASSESSMENT TASKS:			
#	Type of assessment task	Week	Total Grades
1	Assignments, Case Studies and Reports	All over the course	10%
2	Other Assessment Methods: e.g. Quizzes, Internet searches, Home works, Exercises, Class activity, Scratch Cards, Presentations, Group work.....etc	All over the course	20%
3	Laboratories and Hospitals work (e.g. Attitude, Safety, punctuality, behavior, discipline, ethics, and attendance....etc.)	All over the course	10%
4	Practical Tests	Week 16	30%
5	Final written examination	Week 17-18	30%

G- LEARNING RESOURCES:
<p><u>1- Required textbook:</u></p> <p>Murray P. R., Rosenthal K. S., and Pfaller M. A. (2012). Medical Microbiology. 7th edition. Elsevier Saunders</p> <p>Cheesbrough, M. (2005). District Laboratory Practice in Tropical Countries, Part 1 and 2 Cambridge University Press; Second Edition.</p> <p><u>2- Essential references:</u></p> <p>G.F.; Butel, J.S. and Morse, S.A. (2012). Jawetz, Melnick and Adelberg's Medical Microbiology. 26th Edition. McGraw-Hill Education</p> <p>Patrick, M. (2001). Pocket guide to clinical Microbiology. ASM Press, Washington, D.C.</p> <p>El-Nagehl, M; Kamoun, M.; Wilding, P. (2001). Use of clinical laboratory tests. World Health Organization.</p> <p>Basic Histology: Junqueira, L.C. and Carneiro, J. Librairie du Liban, Beirut, Lebanon, Appleton & Lange, Norwalk, Connecticut/ San Mateo, California, 2011.</p> <p>Essential Histology: Cormack, D.H., J.B. Lippincott Company, Philadelphia, London, Mexico, New York, St. Louis,</p>



Sydney, 2006.

Bloom and Fawcett A Text book of Histology: Fawcett, D.W., Chapman and Hall, New York, London, Paris, Tokyo, Toronto, Washington, 2003.

Wheater's Functional Histology: A text and colour atlas. Young B. and Heath J.W., Churchill Livigstone, 2011.

Notes:

- Assignments topics and requirements shall be announced by the end of Week-1, the deadline for submission is 12pm Thursday of Week-10 (each semester).
- Assignments and written assessment tasks must be verified against plagiarism, the maximum acceptable percentage is determined by the department (according to each level).
- Continuous assessment methods may include quizzes, internet searches, home-works, exercises, class activity, scratch cards, presentations, group work, etc.
- Practical exams may contain hands-on experiments, laboratory work, simulations, or demonstrations.
- Written exams will include multiple-choice questions (MCQ), short essay questions, and long essay questions.